

SEQUENCE LISTING

SEQ ID NO: 1

LENGTH : 377

TYPE : amino acid

5 TOPOLOGY : linear

MOLECULE TYPE : peptide

SEQUENCE DESCRIPTION:

Met Lys Phe Pro Gly Pro Leu Glu Asn Gln Arg Leu Ser Phe Leu

5 10 15

10 Leu Glu Lys Ala Ile Thr Arg Glu Ala Gln Met Trp Lys Val Asn

20 25 30

Val Arg Lys Met Pro Ser Asn Gln Asn Val Ser Pro Ser Gln Arg

35 40 45

Asp Glu Val Ile Gln Trp Leu Ala Lys Leu Lys Tyr Gln Phe Asn

50 55 60

Leu Tyr Pro Glu Thr Phe Ala Leu Ala Ser Ser Leu Leu Asp Arg

65 70 75

Phe Leu Ala Thr Val Lys Ala His Pro Lys Tyr Leu Ser Cys Ile

80 85 90

20 Ala Ile Ser Cys Phe Phe Leu Ala Ala Lys Thr Val Glu Glu Asp

95 100 105

Glu Arg Ile Pro Val Leu Lys Val Leu Ala Arg Asp Ser Phe Cys

110 115 120

Gly Cys Ser Ser Ser Glu Ile Leu Arg Met Glu Arg Ile Ile Leu

25 125 130 135

Asp Lys Leu Asn Trp Asp Leu His Thr Ala Thr Pro Leu Asp Phe

	140	145	150
	Leu His Ile Phe His Ala Ile Ala Val Ser Thr Arg Pro Gln Leu		
	155	160	165
	Leu Phe Ser Leu Pro Lys Leu Ser Pro Ser Gln His Leu Ala Val		
5	170	175	180
	Leu Thr Lys Gln Leu Leu His Cys Met Ala Cys Asn Gln Leu Leu		
	185	190	195
	Gln Phe Arg Gly Ser Met Leu Ala Leu Ala Met Val Ser Leu Glu		
	200	205	210
10	Met Glu Lys Leu Ile Pro Asp Trp Leu Ser Leu Thr Ile Glu Leu		
	215	220	225
	Leu Gln Lys Ala Gln Met Asp Ser Ser Gln Leu Ile His Cys Arg		
	230	235	240
	Glu Leu Val Ala His His Leu Ser Thr Leu Gln Ser Ser Leu Pro		
15	245	250	255
	Leu Asn Ser Val Tyr Val Tyr Arg Pro Leu Lys His Thr Leu Val		
	260	265	270
	Thr Cys Asp Lys Gly Val Phe Arg Leu His Pro Ser Ser Val Pro		
	275	280	285
20	Gly Pro Asp Phe Ser Lys Asp Asn Ser Lys Pro Glu Val Pro Val		
	290	295	300
	Arg Gly Thr Ala Ala Phe Tyr His His Leu Pro Ala Ala Ser Gly		
	305	310	315
	Cys Lys Gln Thr Ser Thr Lys Arg Lys Val Glu Glu Met Glu Val		
25	320	325	330
	Asp Asp Phe Tyr Asp Gly Ile Lys Arg Leu Tyr Asn Glu Asp Asn		

	335	340	345
	Val Ser Glu Asn Val Gly Ser Val Cys Gly Thr Asp Leu Ser Arg		
	350	355	360
	Gln Glu Gly His Ala Ser Pro Cys Pro Pro Leu Gln Pro Val Ser		
5	365	370	375
	Val Met		

SEQ ID NO: 2

LENGTH : 1134

10	TYPE : nucleic acid		
	STRANDEDNESS : double		
	TOPOLOGY : linear		
	MOLECULE TYPE : D N A		
	SEQUENCE DESCRIPTION:		
15	ATG AAG TTT CCA GGG CCT TTG GAA AAC CAG AGA TTG TCT TTC CTG	45	
	TTG GAA AAG GCA ATC ACT AGG GAA GCA CAG ATG TGG AAA GTG AAT	90	
	GTG CGG AAA ATG CCT TCA AAT CAG AAT GTT TCT CCA TCC CAG AGA	135	
	GAT GAA GTA ATT CAA TGG CTG GCC AAA CTC AAG TAC CAA TTC AAC	180	
	CTT TAC CCA GAA ACA TTT GCT CTG GCT AGC AGT CTT TTG GAT AGG	225	
20	TTT TTA GCT ACC GTA AAG GCT CAT CCA AAA TAC TTG AGT TGT ATT	270	
	GCA ATC AGC TGT TTT TTC CTA GCT GCC AAG ACT GTT GAG GAA GAT	315	
	GAG AGA ATT CCA GTA CTA AAG GTA TTG GCA AGA GAC AGT TTC TGT	360	
	GGA TGT TCC TCA TCT GAA ATT TTG AGA ATG GAG AGA ATT ATT CTG	405	
	GAT AAG TTG AAT TGG GAT CTT CAC ACA GCC ACA CCA TTG GAT TTT	450	
25	CTT CAT ATT TTC CAT GCC ATT GCA GTG TCA ACT AGG CCT CAG TTA	495	
	CTT TTC AGT TTG CCC AAA TTG AGC CCA TCT CAA CAT TTG GCA GTC	540	

CTT ACC AAG CAA CTA CTT CAC TGT ATG GCC TGC AAC CAA CTT CTG	585
CAA TTC AGA GGA TCC ATG CTT GCT CTG GCC ATG GTT AGT CTG GAA	630
ATG GAG AAA CTC ATT CCT GAT TGG CTT TCT CTT ACA ATT GAA CTG	675
CTT CAG AAA GCA CAG ATG GAT AGC TCC CAG TTG ATC CAT TGT CGG	720
5 GAG CTT GTG GCA CAT CAC CTT TCT ACT CTG CAG TCT TCC CTG CCT	765
CTG AAT TCC GTT TAT GTC TAC CGT CCC CTC AAG CAC ACC CTG GTG	810
ACC TGT GAC AAA GGA GTG TTC AGA TTA CAT CCC TCC TCT GTC CCA	855
GGC CCA GAC TTC TCC AAG GAC AAC AGC AAG CCA GAA GTG CCA GTC	900
AGA GGT ACA GCA GCC TTT TAC CAT CAT CTC CCA GCT GCC AGT GGG	945
10 TGC AAG CAG ACC TCT ACT AAA CGC AAA GTA GAG GAA ATG GAA GTG	990
GAT GAC TTC TAT GAT GGA ATC AAA CGG CTC TAT AAT GAA GAT AAT	1035
GTC TCA GAA AAT GTG GGT TCT GTG TGT GGC ACT GAT TTA TCA AGA	1080
CAA GAG GGA CAT GCT TCC CCT TGT CCA CCT TTG CAG CCT GTT TCT	1125
GTC ATG TAG	1134
15 SEQ ID NO : 3	
LENGTH : 33	
TYPE : nucleic acid	
STRANDEDNESS : double	
TOPOLOGY : linear	
20 MOLECULE TYPE : D N A	
SEQUENCE LISTING	
CGTTCCCGGG TATGAAGTTT CCAGGGCCTT TGG	33
SEQ ID NO : 4	
LENGTH : 31	
25 TYPE : nucleic acid	
STRANDEDNESS : double	

TOPOLOGY : linear

MOLECULE TYPE : DNA

SEQUENCE LISTING

ACGGCTCGAG CTACATGACA GAAACAGGCT G

31

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SEQ ID NO : 5

LENGTH : 14

TYPE : amino acid

TOPOLOGY : linear

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MOLECULE TYPE : peptide

SEQUENCE LISTING

Glu Asp Asn Val Ser Glu Asn Val Gly Ser Val Cys Gly Thr

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